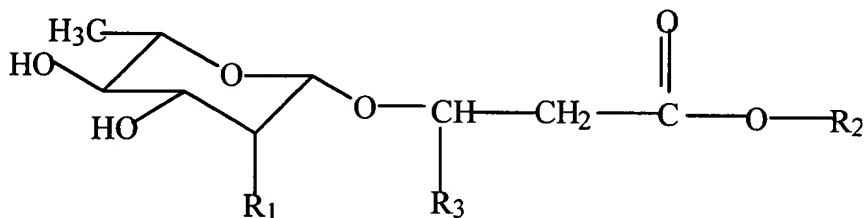


**IN THE CLAIMS**

This listing of Claims will replace all prior versions and listings of Claims in the application:

Claims 1-28 (Cancelled)

29. (New) A cosmetic method for the treatment of wrinkles comprising:  
applying to a person having wrinkles, an effective amount of a composition comprising as an active ingredient, one or more rhamnolipids of Formula I:



wherein R<sup>1</sup> = H, unsubstituted  $\alpha$ -L-rhamnopyranosyl,  $\alpha$ -L-rhamnopyranosyl substituted at the 2 position with a group of formula -O-C(=O)-CH=CH-R<sub>5</sub>, or -O-C(=O)-CH=CH-R<sub>5</sub>;

R<sup>2</sup> = H, lower alkyl, -CHR<sub>4</sub>-CH<sub>2</sub>-COOH or -CHR<sub>4</sub>-CH<sub>2</sub>-COOR<sub>6</sub>;

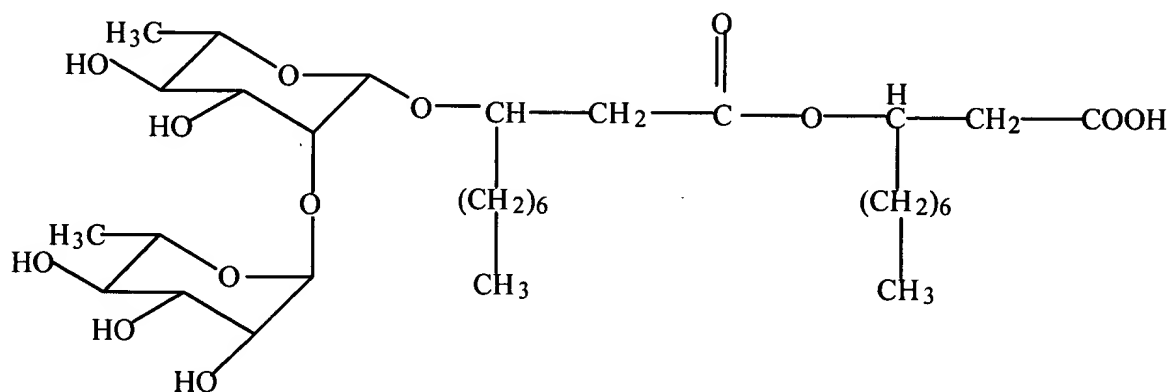
R<sup>3</sup> = -(CH<sub>2</sub>)<sub>x</sub>-CH<sub>3</sub>, wherein x = 4-19;

R<sup>4</sup> = -(CH<sub>2</sub>)<sub>y</sub>-CH<sub>3</sub>, wherein y = 1-19;

R<sup>5</sup> = (CH<sub>2</sub>)<sub>z</sub>-CH<sub>3</sub>, wherein z = 1-12; and

R<sup>6</sup> = lower alkyl.

30. (New) The cosmetic method as claimed in claim 29, wherein said rhamnolipid of Formula 1 is  $\alpha$ -L-rhamnopyranosyl-(1,2)- $\alpha$ -L-rhamnopyranosyl)-3-hydroxydecanoyl-3-hydroxydecanoic acid having the following formula:



31. (New) The cosmetic method as claimed in claim 29, wherein the one or more rhamnolipids of Formula 1 are selected from the group consisting of compounds of Formula 1 wherein:

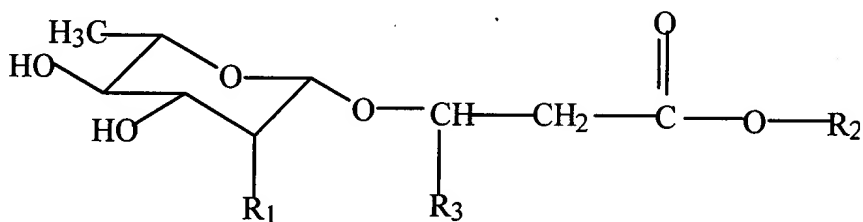
$R^1 = -O-C(=O)-CH=CH-R^5$ ,  $R^2 = -CHR^4-CH_2-COOH$ ,  $R^3 = -(CH_2)_6-CH_3$ ,  $R^4 = -(CH_2)_2-CH_3$ , and  $R^5 = -(CH_2)_6-CH_3$ ;

$R^1 = \alpha$ -L-rhamnopyranosyl substituted at the 2-position by  $-O-C(=O)-CH=CH-R^5$ ,  $R^2 = -CHR^4-CH_2-COOCH_3$ ,  $R^3 = (CH_2)_6-CH_3$ ,  $R^4 = -(CH_2)_6-CH_3$ , and  $R^5 = -(CH_2)_6-CH_3$ ;

$R^1 = -O-C(=O)-CH=CH-R^5$ ,  $R^2 = -CHR^4-CH_2-COOCH_3$ ,  $R^3 = -(CH_2)_6-CH_3$ ,  $R^4 = -(CH_2)_2-CH_3$ , and  $R^5 = -(CH_2)_6-CH_3$ ; and

$R^1 = \alpha$ -L-rhamnopyranosyl substituted at the 2-position by  $-O-C(=O)-CH=CH-R^5$ ,  $R^2 = -CH-R^4-CH_2-COOCH_3$ ,  $R^3 = -(CH_2)_6-CH_3$ ,  $R^4 = -(CH_2)_6-CH_3$ , and  $R^5 = -(CH_2)_6-CH_3$ .

32. (New) A cosmetic method for the treatment of wrinkles comprising:  
applying to a person having wrinkles, an effective amount of a composition comprising as an active ingredient, one or more rhamnolipids of Formula I:



wherein  $R^1 = H$ , unsubstituted  $\alpha$ -L-rhamnopyranosyl,  $\alpha$ -L-rhamnopyranosyl substituted at the 2 position with a group of formula  $-O-C(=O)-CH=CH-R^5$ , or  $-O-C(=O)-CH=CH-R^5$ ;

$R^2 = H$ , lower alkyl,  $-CH-R^4-CH_2-COOH$  or  $-CH-R^4-CH_2-COOR^6$ ;

$R^3 = -(CH_2)_x-CH_3$ , wherein  $x = 4-19$ ;

$R^4 = -(CH_2)_y-CH_3$ , wherein  $y = 1-19$ ;

$R^5 = (CH_2)_z-CH_3$ , wherein  $z = 1-12$ ; and

$R^6 =$  lower alkyl;

wherein the composition is applied from 1-3 times per day to the wrinkled areas.

U.S. Application No.: 09/644,984  
AMENDMENT C

Docket: 1003.010

33. (New) The cosmetic method as claimed in claim 29, wherein the composition is administered in topical form.

34. (New) The cosmetic method as claimed in claim 29, wherein the composition further comprises one or more cosmetic carriers and/or diluents.

35. (New) The cosmetic method as claimed in claim 29, wherein the rhamnolipid is administered in an amount averaging from about 0.01 to about 1.0 % weight over a period of at least one day to six weeks.